

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.(Currently Amended) A display apparatus (1) comprising:

an electrophoretic medium (5) comprising charged particles (6) in a fluid positioned in one of a plurality positions within said medium;

a plurality of picture elements (2);

a first and second electrode (8,9) associated with each picture element (2) for receiving a potential difference; and

a drive means (100) arranged to:

[[a]] supply a sequence of picture potential differences to each of said picture elements (2), each of said picture potential differences having a picture value and an associated picture duration, the-a product of said picture value and picture duration representing a picture energy for enabling the particles to occupy one of the positions for displaying a picture; and

[[b]] supply one or more inter-picture potential differences between at least two consecutive picture potential differences to selected ones of said picture elements, said one or more inter-picture potential differences having an inter-picture value and an

associated inter-picture duration, ~~the a~~ product of said inter-picture value and inter-picture duration representing an inter-picture energy which is insufficient to change the positions of the particles to cause an optical state change, wherein the one or more inter-picture potential differences is immediately after a first picture potential difference of the two consecutive picture potential differences;

the apparatus (1) further comprising a memory means (104) for receiving and storing a data representative of the picture energy and the inter-picture energy of all of said potential differences applied to each picture element (2), and providing a running total of the picture energy and the inter-picture energy for each picture element (2),

the drive means (100) being further arranged to select the polarity of said one or more inter-picture potential differences such that a magnitude of said running total for a corresponding one of said picture elements (2) is reduced minimized.

2.(Currently Amended) The apparatus (1) according to claim 1, wherein a time interval is provided between each inter-picture potential difference applied to a corresponding one of said plurality of picture elements (2).

3.(Currently Amended) The apparatus (1) according to claim 2, wherein said time interval is ~~of the order of~~ 0.5 seconds.

4.(Currently Amended) The apparatus (1) according to claim 1, wherein the duration

of each inter-picture potential difference is 2-8ms.

5.(Currently Amended) The apparatus (1) according to claim 1, wherein the value of said inter-picture potential differences is substantially a maximum voltage available on the drive means.

6.(Withdrawn-Currently Amended) The apparatus (1) according to claim 1, wherein one or more of said inter-picture potential differences have an inter-picture value below a switching threshold voltage of an ink material used in said display apparatus.

7.(Currently Amended) The apparatus (1) according to claim 1, wherein a number and a polarity of said inter-picture potential differences are stored in the memory means.